Appendix B
Meteorological Data

This section contains meteorological data derived from various regulatory and non-regulatory sites. The data provides a comparative analysis of winds speed, wind direction, wind gusts and concentration data. Please note that meteorological instruments measure at different heights, and at different time intervals. By taking, the actual time of measurement and assuring that all data represented is in Pacific Standard Time (PST) there is uniformity of the data. In addition, not all stations measure at the exact same time, i.e. measurements at 053 and 056 therefore, comparisons are measurements within a 60-minute period. While there may be some overlapping and slight differences the comparative analysis provides the reader with a better understanding of the regional effect of the Exceptional Event.

FIGURE B-1
METEOROLOGICAL AND AIR QUALITY SITES REFERENCED IN THIS DOCUMENT

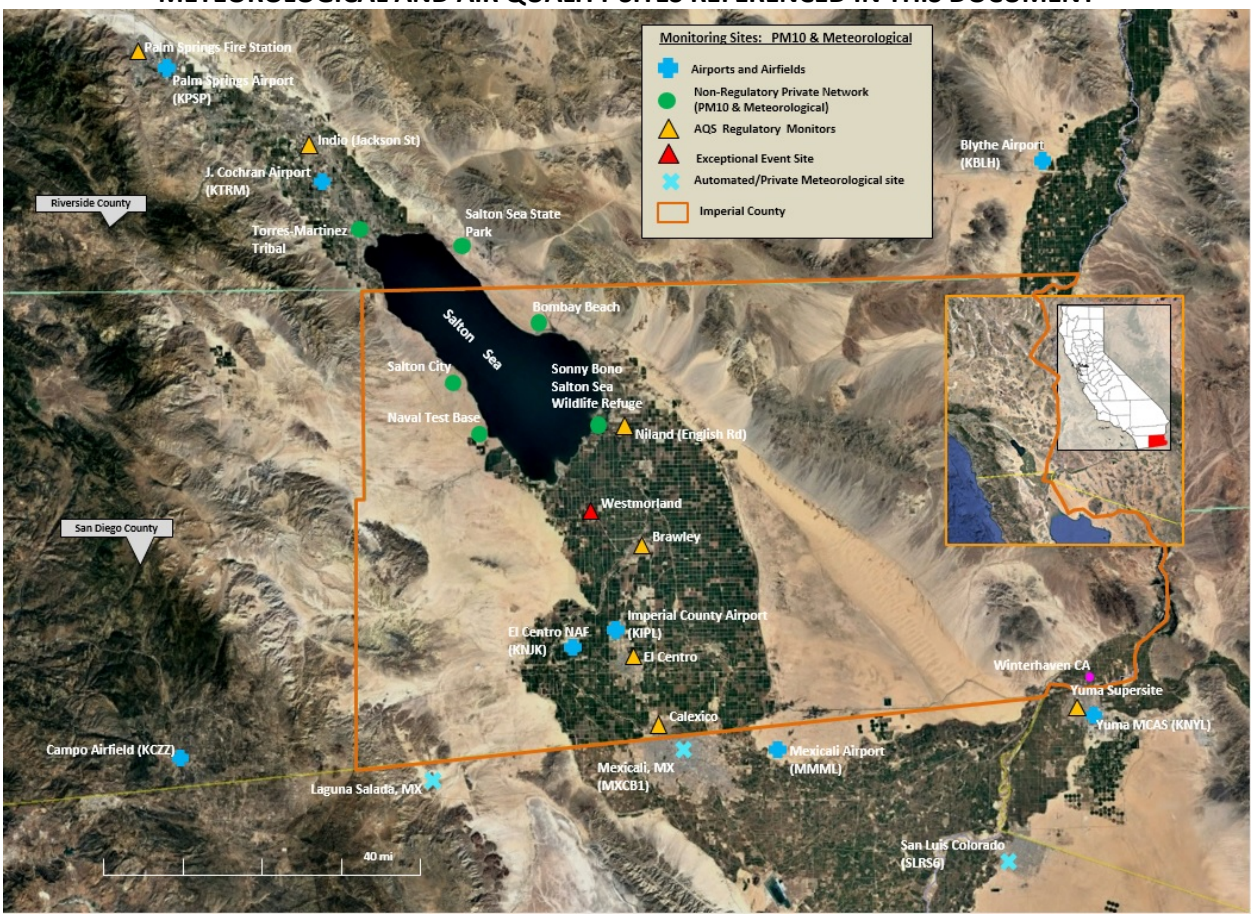


Fig. B-1: A collection of meteorological and air quality sites referenced in this document. Base map from Google Earth.

IMPERIAL COUNTY SITES
FIGURES B-2 THROUGH B-9

FIGURE B-2
IMPERIAL COUNTRY AIRPORT (KIPL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

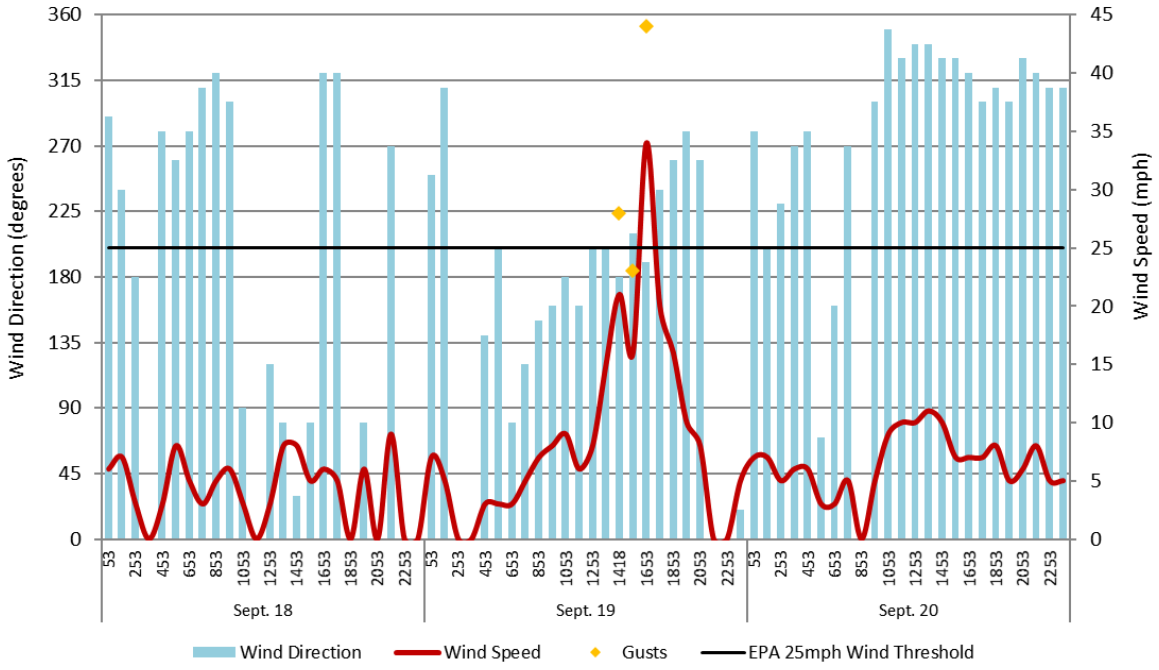
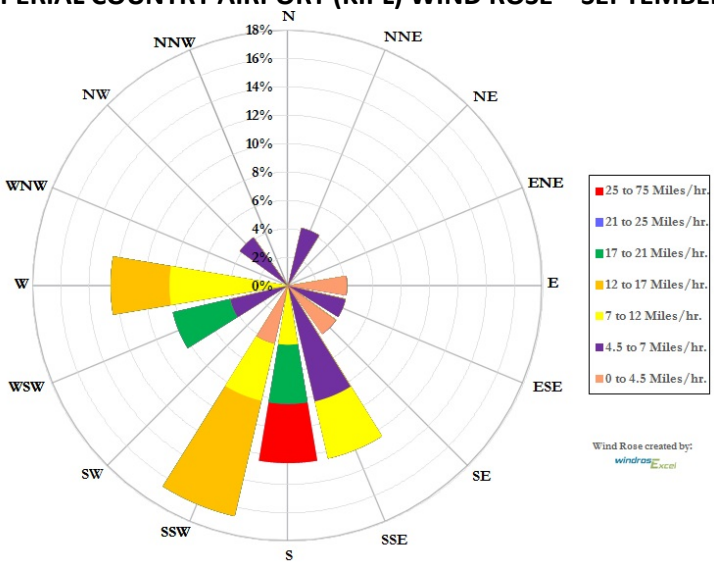


FIGURE B-3
IMPERIAL COUNTRY AIRPORT (KIPL) WIND ROSE – SEPTEMBER 19, 2016



Figs. B-2 & B-3: Imperial Airport meteorological data for September 19, 2016 shows that southerly winds and gusts were over 25 mph. Wind data from the NCEI's QCLCD system.

FIGURE B-4
EL CENTRO NAF (KNJK)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

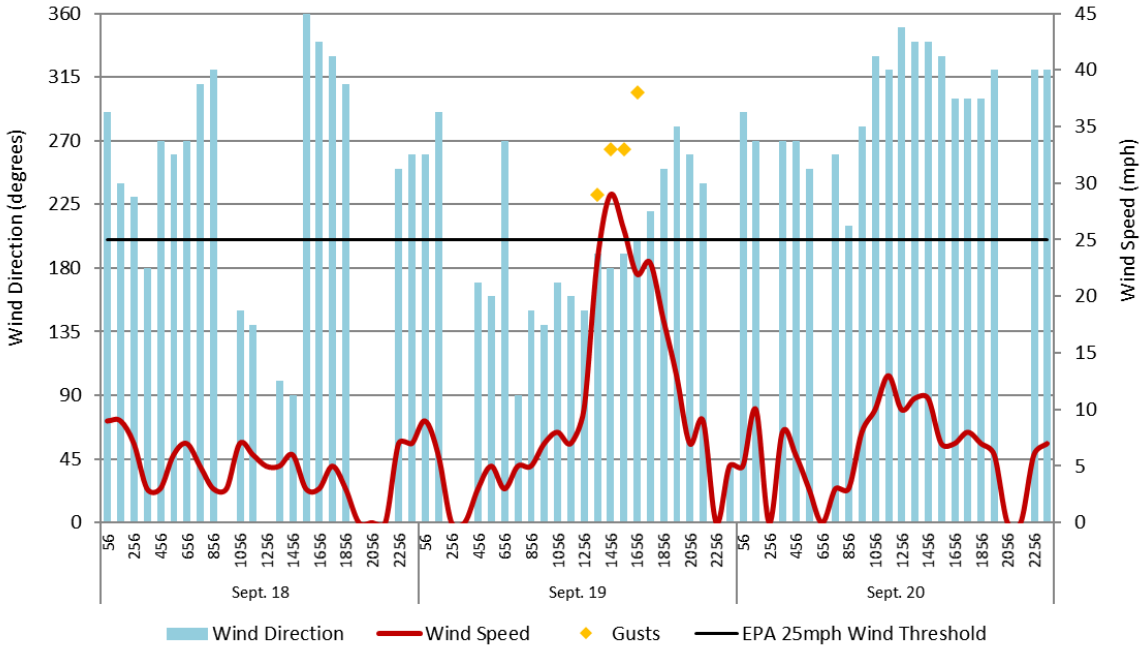
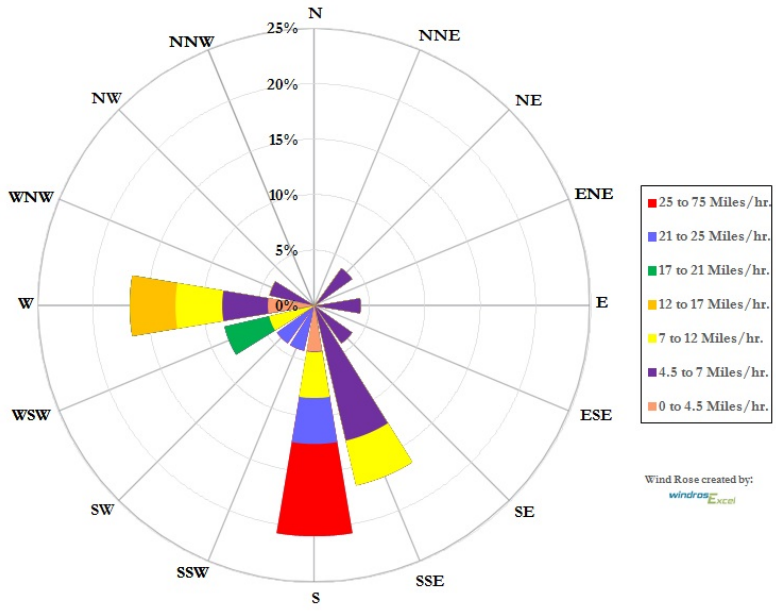


FIGURE B-5
EL CENTRO NAF (KNJK) WIND ROSE – SEPTEMBER 19, 2016



Figs. B-4 & B-5: El Centro NAF meteorological data for September 19, 2016 shows that southerly winds and gusts were over 25 mph. Wind data from the NCEI's QCLCD system.

FIGURE B-6
CALEXICO
WIND SPEED & DIRECTION

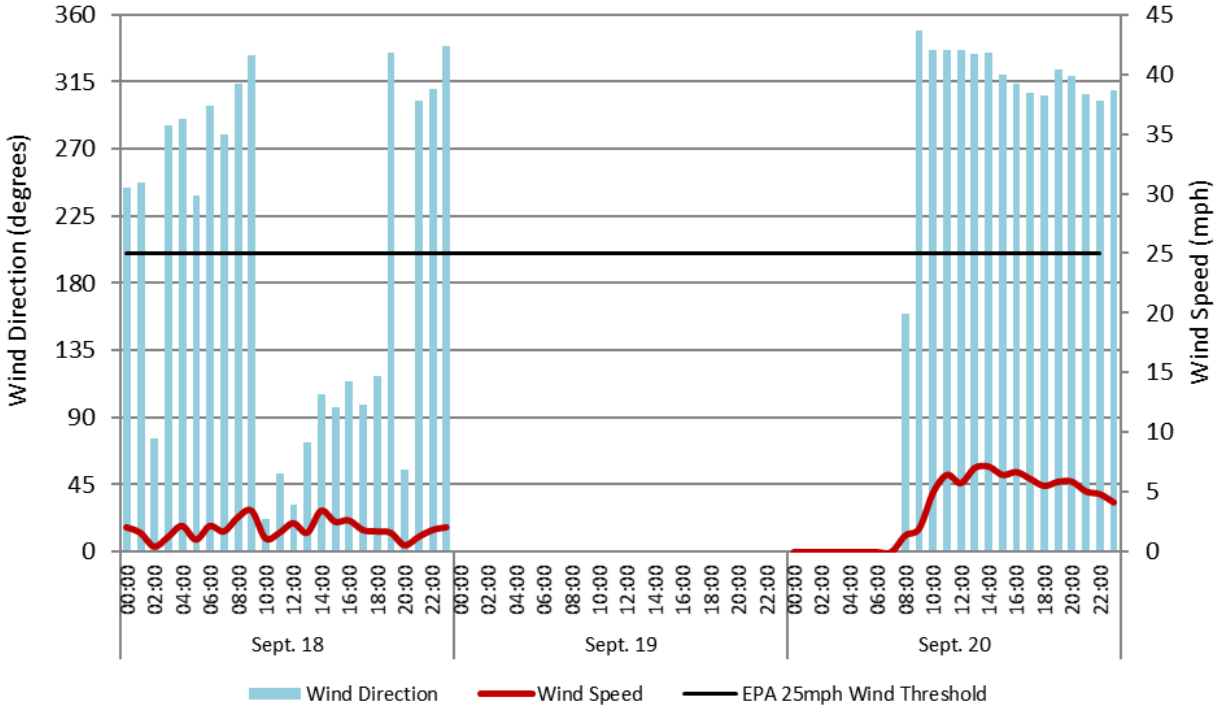
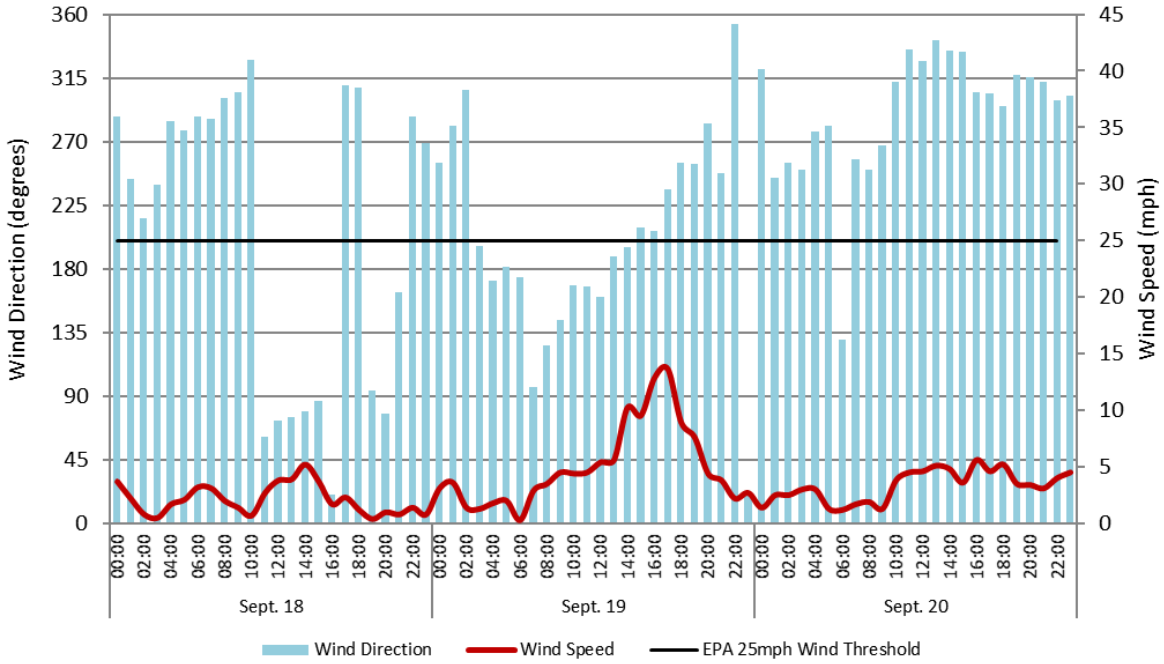


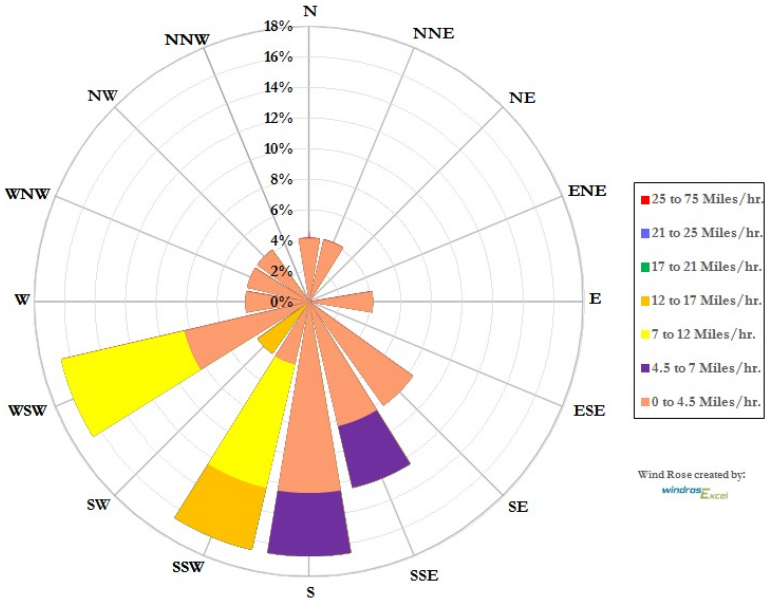
FIGURE B-7
CALEXICO WINDROSE – SEPTEMBER 19, 2016

Figs. B-6 & B-7: Calexico meteorological data for September 19, 2016 was coded "BK". Wind data from the NCEI's QCLCD system.

FIGURE B-8
EL CENTRO (9TH St)
WIND SPEED & DIRECTION



FIGURES B-9
EL CENTRO (9TH ST) WIND ROSE – SEPTEMBER 19, 2016



Figs. B-8 & B-9: El Centro station meteorological data for September 19, 2016 shows winds varied due to the erratic outflows from thunderstorms. Wind data from the EPA's AQS data bank.

FIGURE B-10
NILAND (ENGLISH RD)
WIND SPEED & DIRECTION

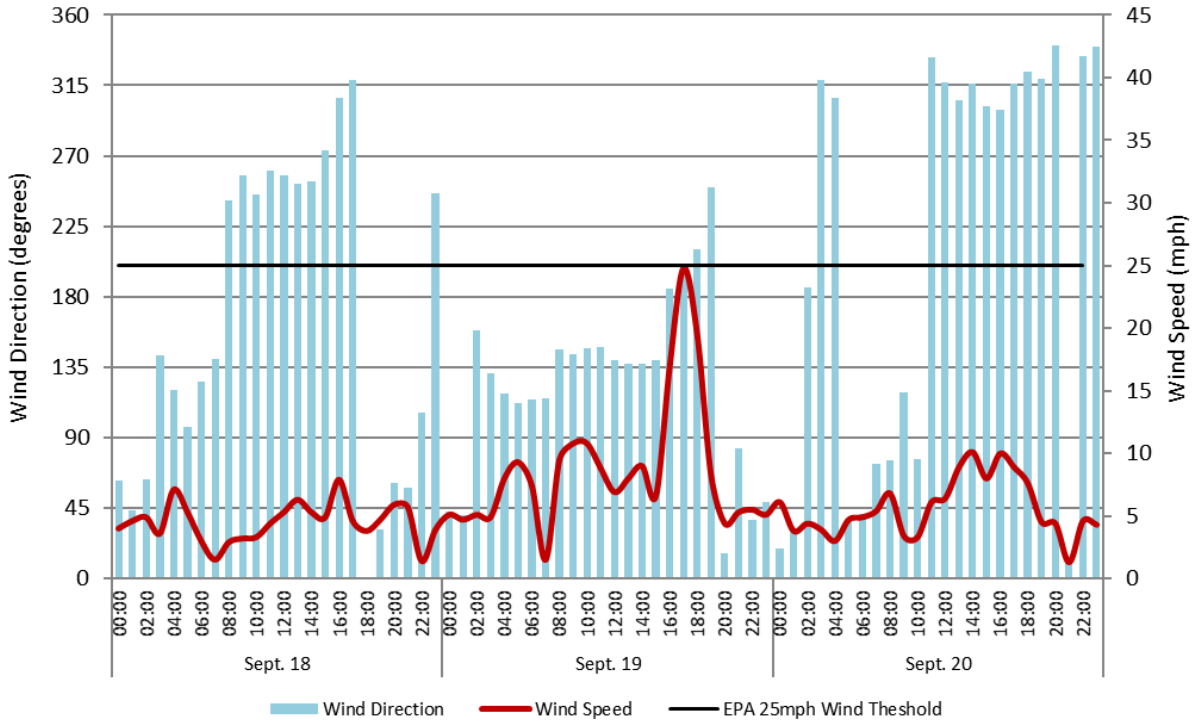
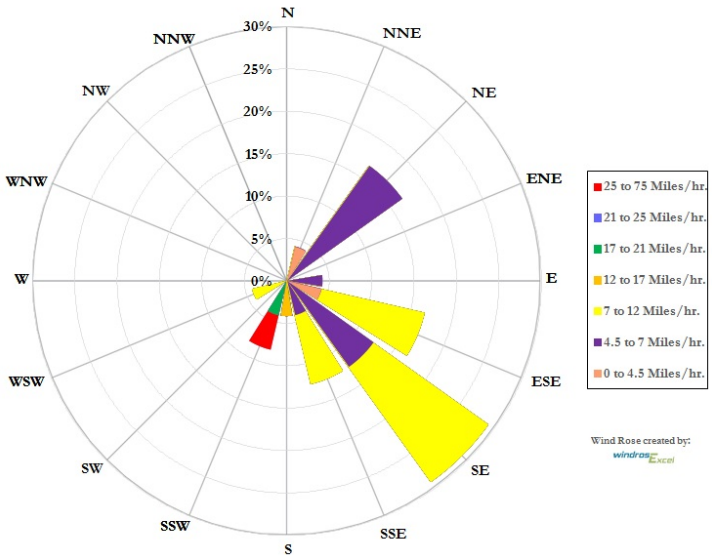


FIGURE B-11
NILAND (ENGLISH RD) WINDROSE – SEPTEMBER 19, 2016



Figs. B-10 & B-11: Niland wind data for September 19, 2016 shows a distinct SSW direction for the highest winds. Wind data from the EPA's AQS data bank.

FIGURE B-12
WESTMORLAND
WIND SPEED & DIRECTION

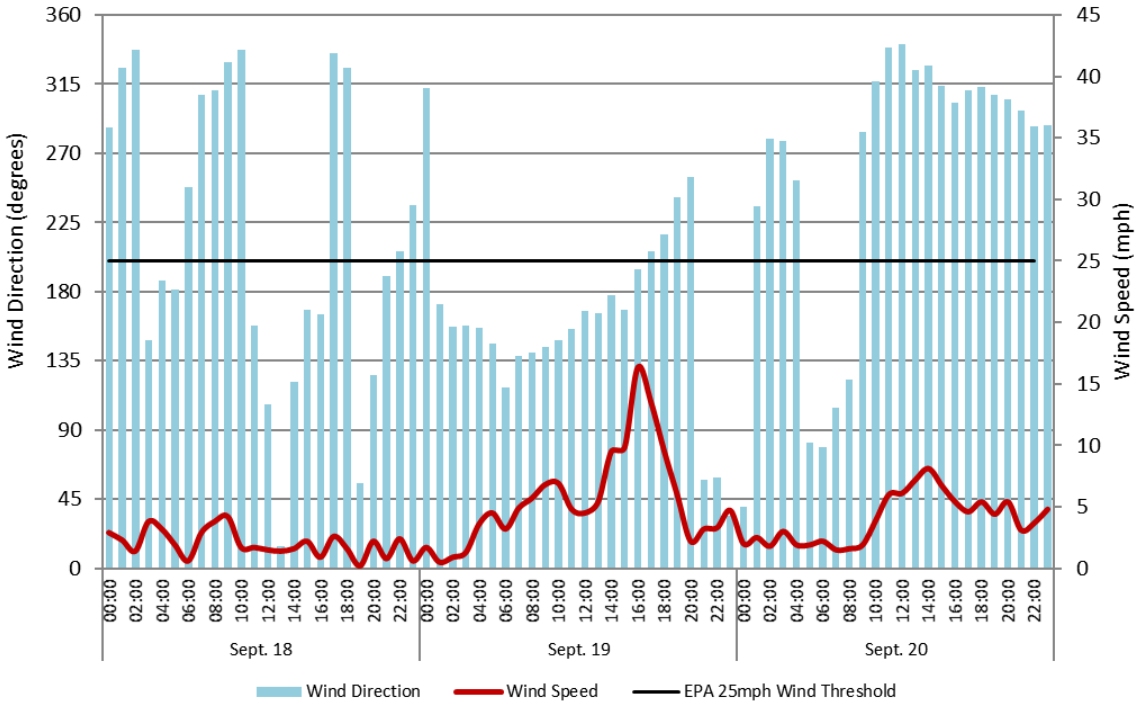
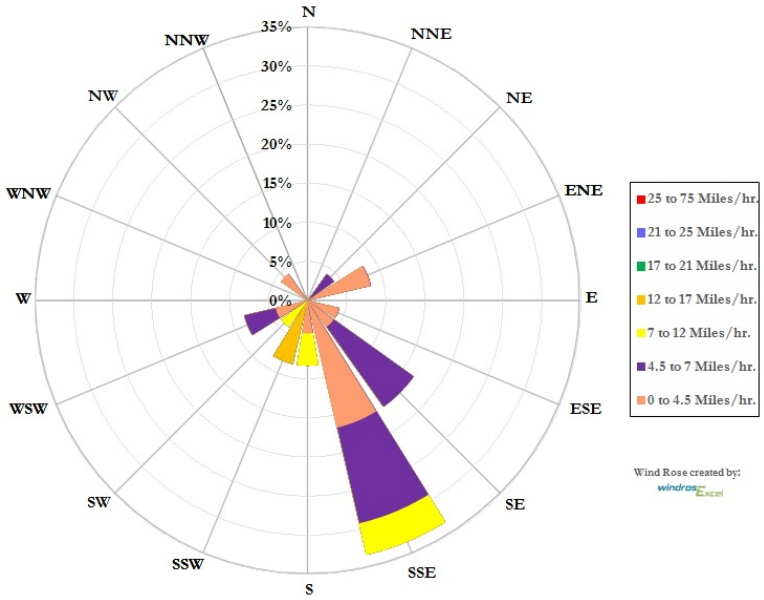


FIGURE B-13
WESTMORLAND WINDROSE – SEPTEMBER 19, 2016



Figs. B-12 & B-13: Westmorland station meteorological data for September 19, 2016 shows a distinct SSE direction for the higher winds. Wind data from the EPA's AQS data bank.

EASTERN RIVERSIDE COUNTY SITES

FIGURE B-14
BLYTHE AIRPORT (KBLH)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

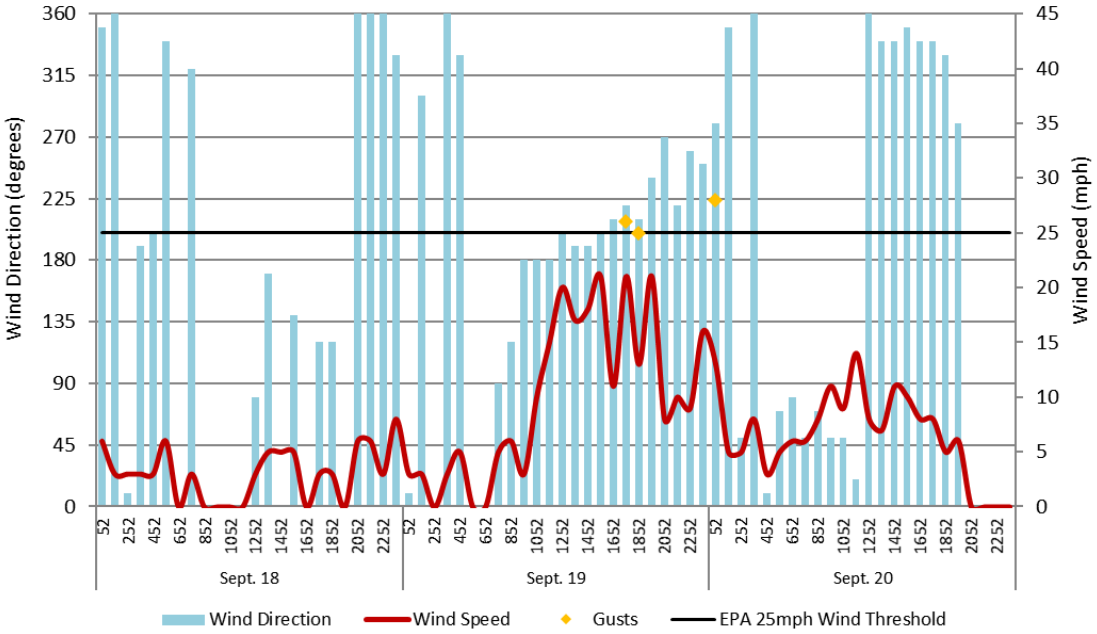


Fig. B-14: Wind data from the NCEI's QCLCD system.

FIGURE B-15
JACQUELINE COCHRAN REGIONAL AIRPORT (KTRM)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

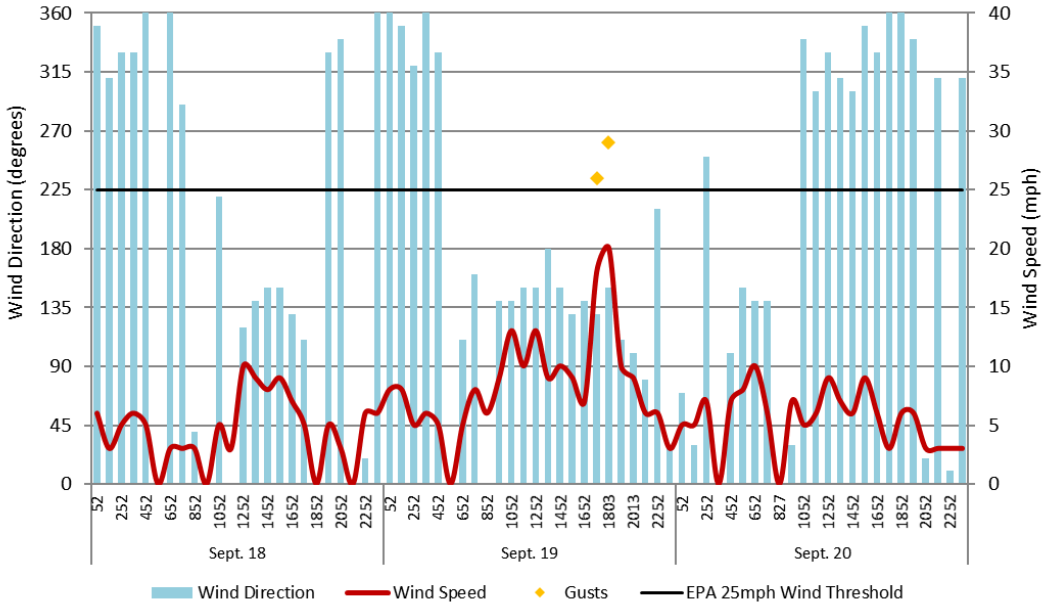


Fig. B-15: Wind data from the NCEI's QCLCD system.

FIGURE B-16
PALM SPRINGS INTERNATIONAL AIRPORT (KPSP)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

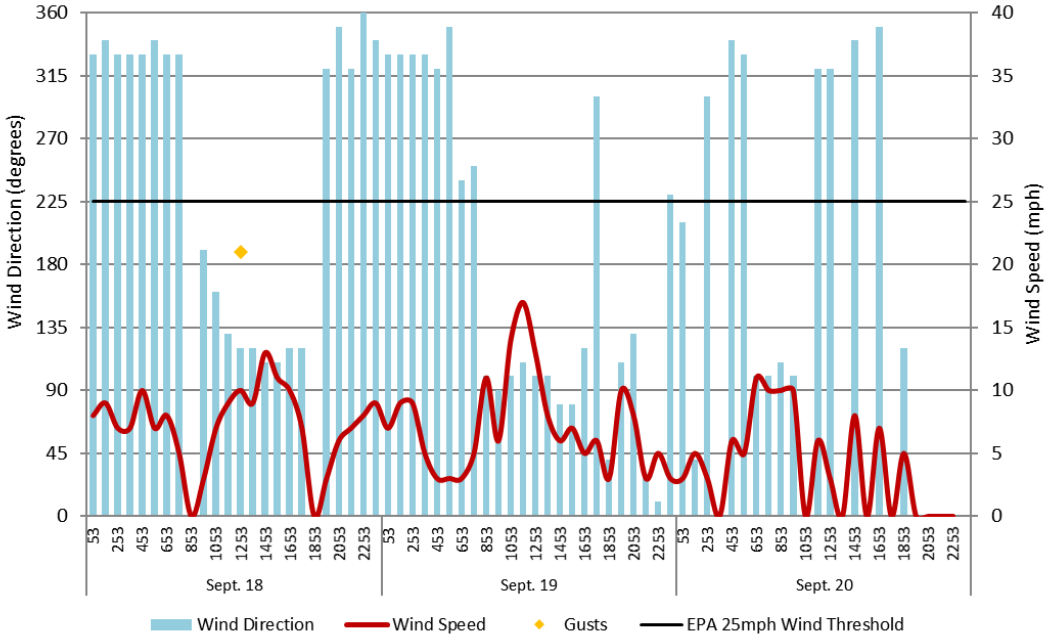


Fig. B-16: Wind data from the NCEI's QCLCD system.

SOUTHEAST SAN DIEGO COUNTY

FIGURE B-17
CAMPO AIRFIELD (KCZZ)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

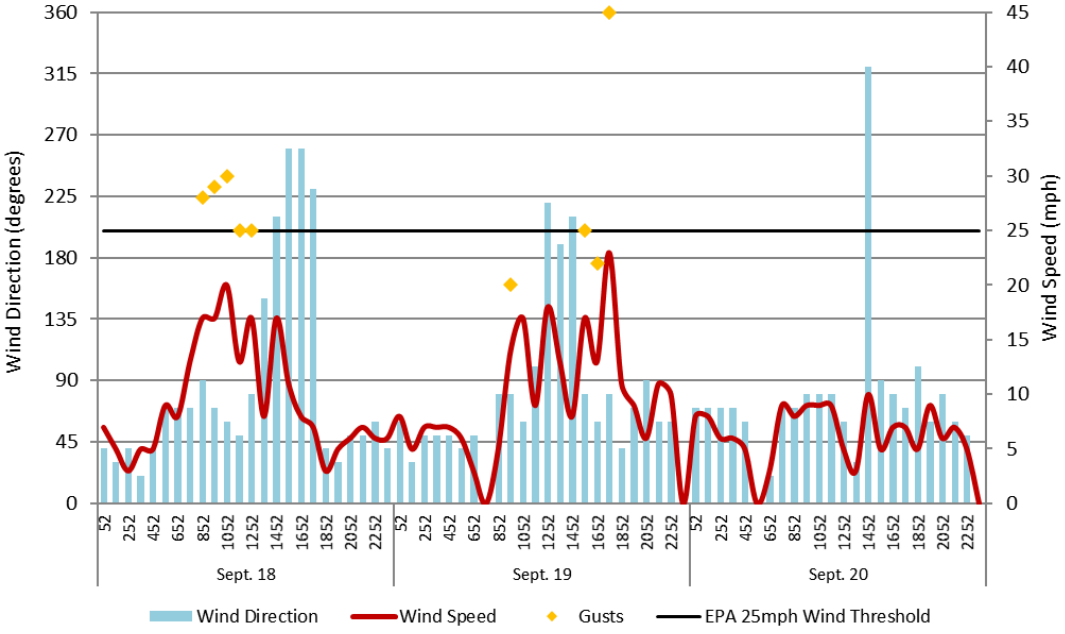


Fig. B-17: Wind data from the NCEI's QCLCD system.

UPSTREAM WIND SITES

The following sites were upstream from Imperial County during the September 19, 2016 wind event.

SOUTHWESTERN ARIZONA

FIGURE B-18
YUMA MCAS (KNYL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

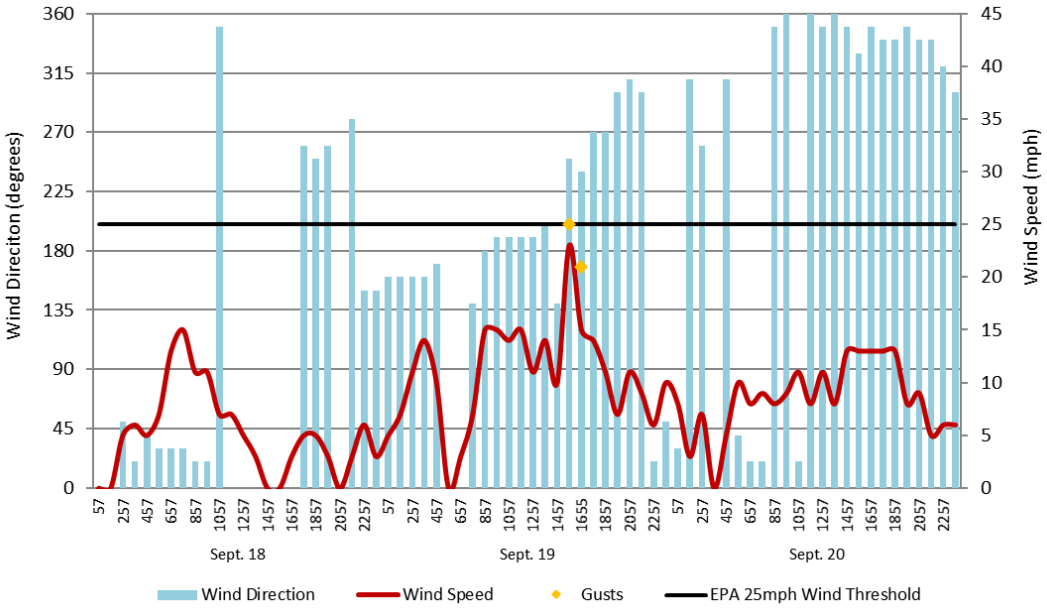
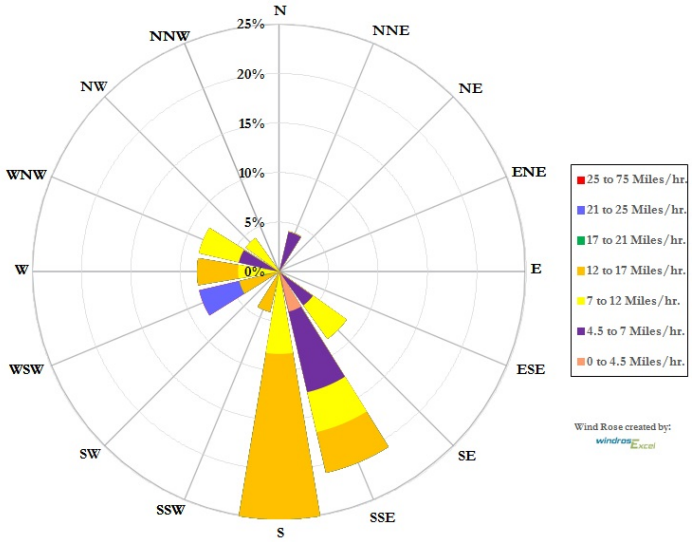


FIGURE B-19
YUMA AZ MCAS WINDROSE – SEPTEMBER 19, 2016



Figs. B-18 & B-19: Yuma MCAS (KNYL), downstream from Imperial County, did not have winds of 25 mph but gusts did reach 25 mph. Data from the NCEI QCLCD system.

FIGURE B-20
LAGUNA SALADA, MX
WIND SPEED (AVERAGES) & DIRECTION

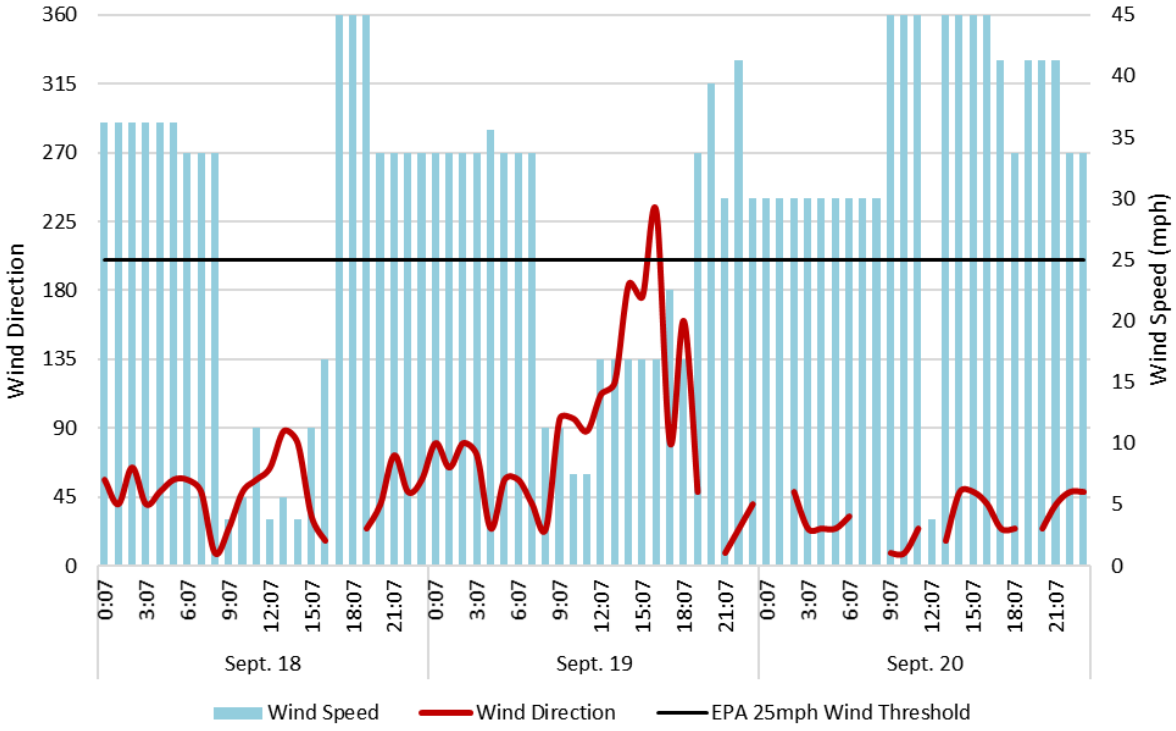
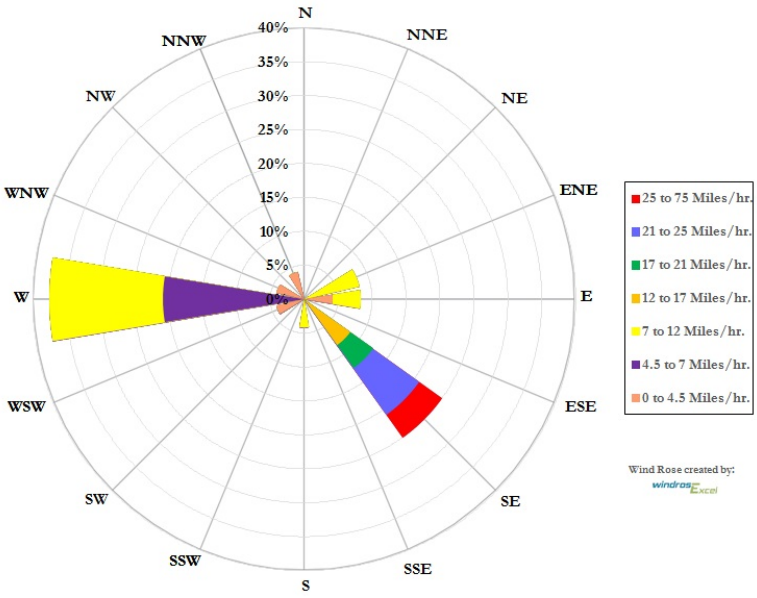
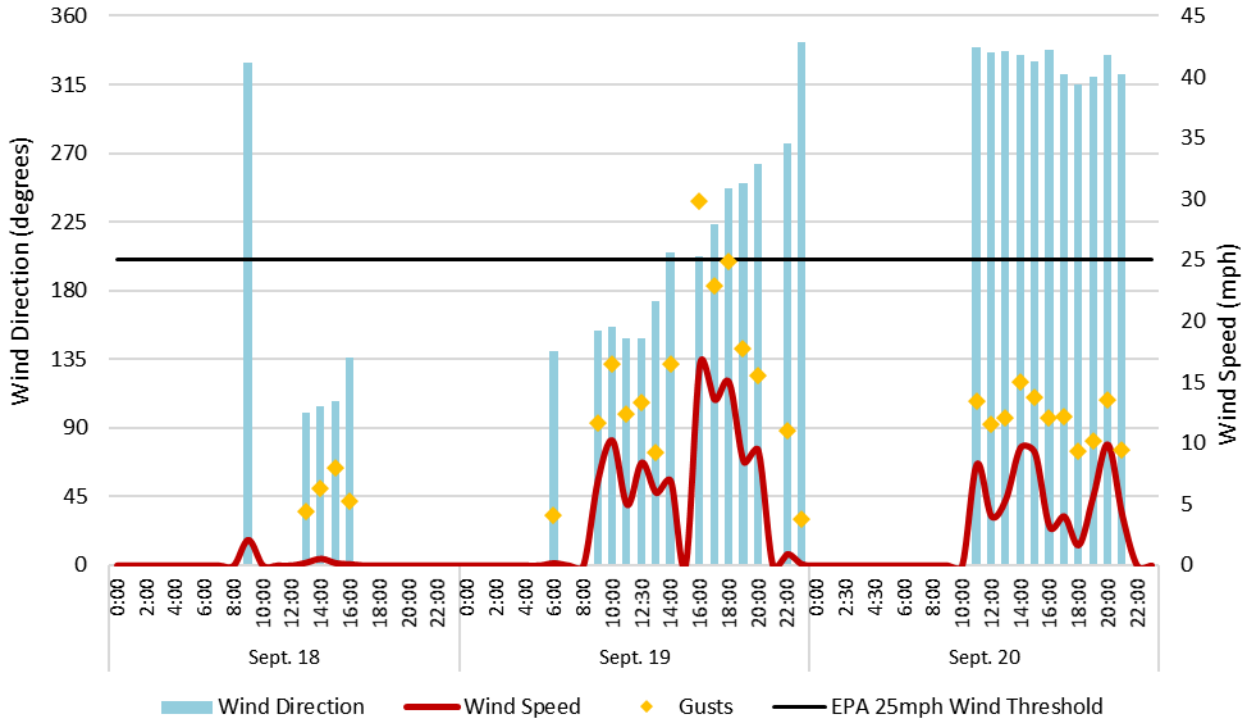


FIGURE B-21
LAGUNA SALADA WIND ROSE – SEPTEMBER 19, 2016

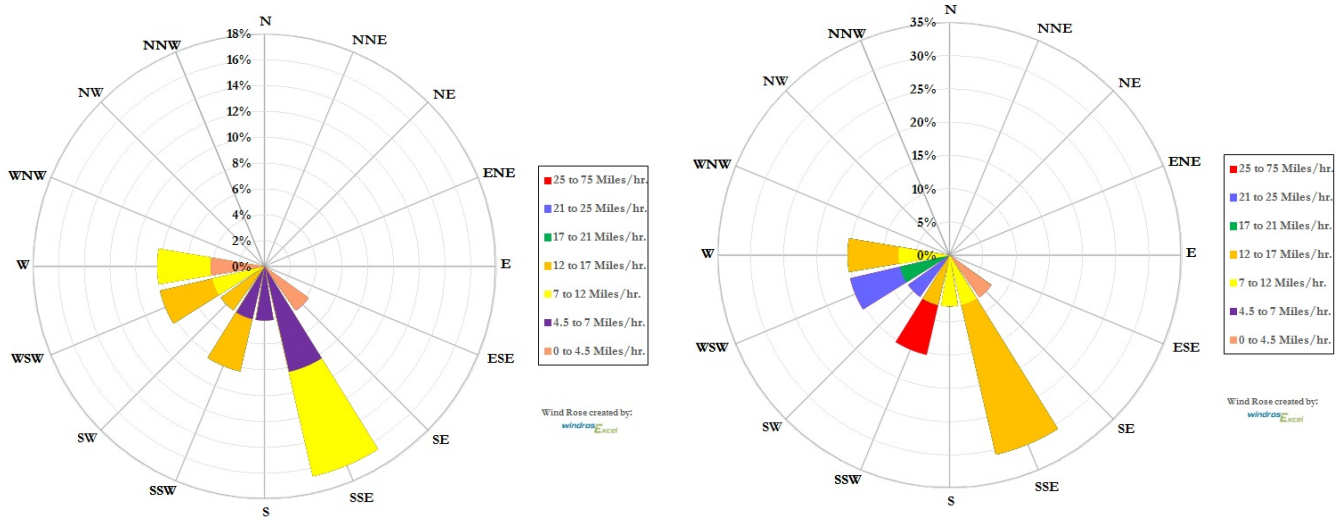


Figs. B-20 & B-21: Laguna Salada (IBCLARUM2) just across the border in Mexico (elev. 856 ft) had winds over 25 mph. Data from the Weather Underground.

FIGURE B-22
MEXICALI, MX
WIND SPEED (AVERAGES), GUSTS & DIRECTION

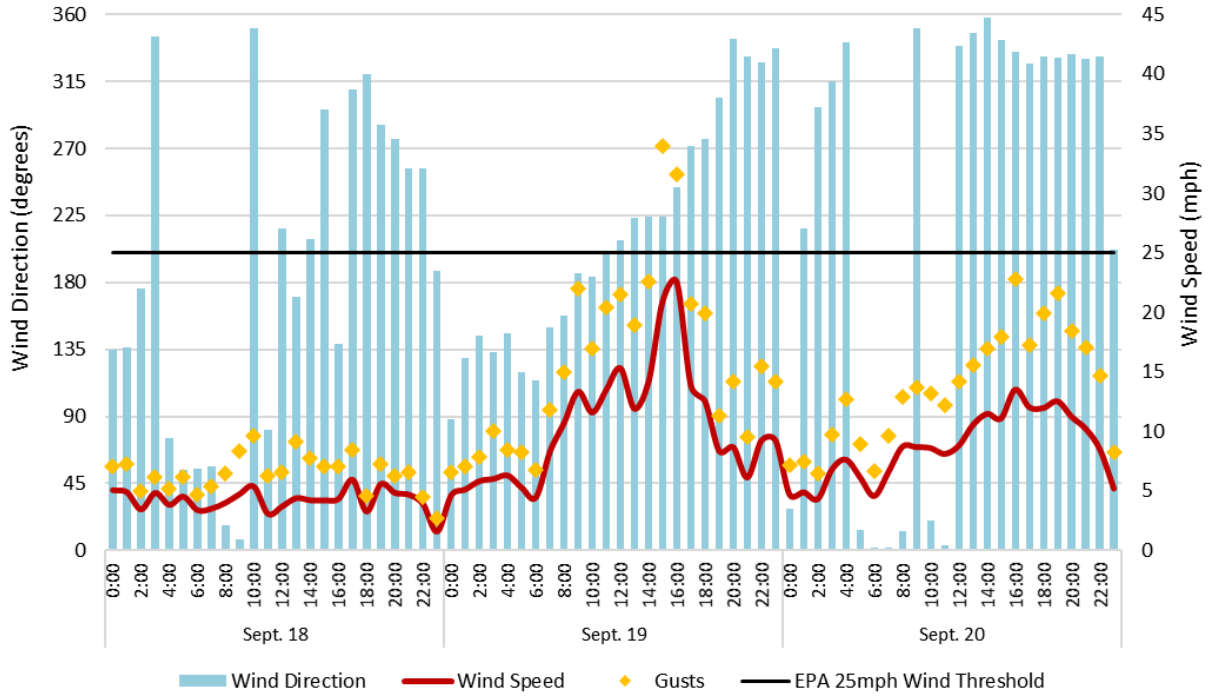


FIGURES B-23 & B-24
MEXICALI WIND ROSES (RIGHT ROSE GUSTS ONLY) – SEPTEMBER 19, 2016

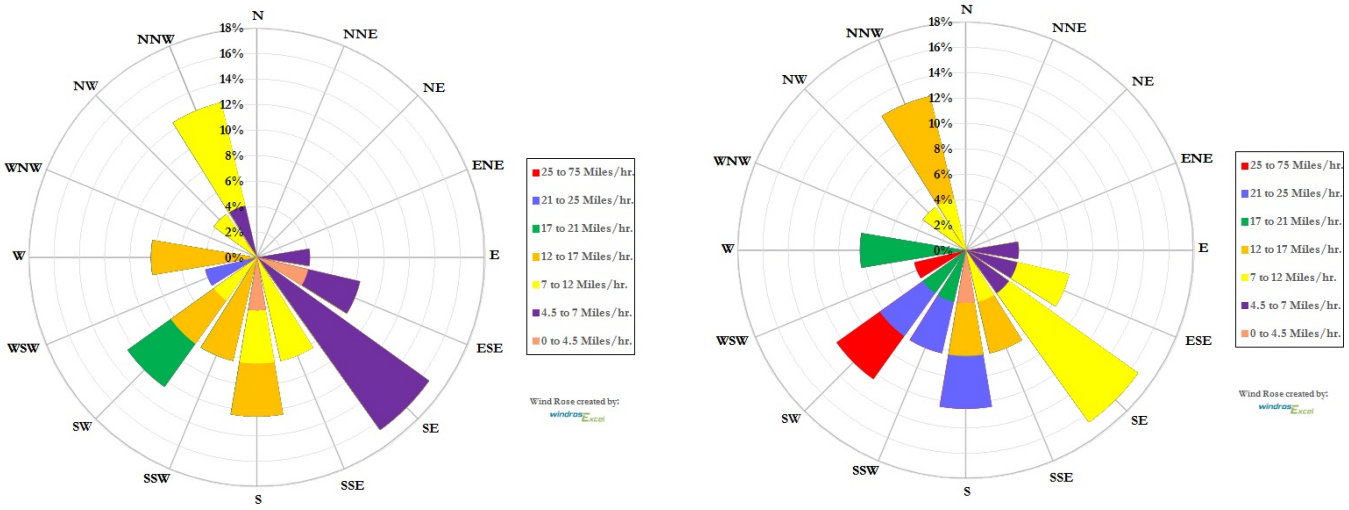


Figs. B-22 & B-23 & B-24: Mexicali (MXCB1) just across the border in Mexicali, Mexico (elev. 13 ft.) did not have winds (left wind rose) of over 25 mph, but did have gusts (right wind rose) of 30 mph. Data from the University of Utah's MesoWest.

FIGURE B-25
SAN LUIS RIO COLORADO, MX
WIND SPEED (AVERAGES), GUSTS & DIRECTION



FIGURES B-26 & B-27
SAN LUIS RIO COLORADO, MX WIND ROSES (RIGHT ROSE GUSTS ONLY) – SEPTEMBER 19, 2016



Figs. B-25 & B-26 & B-27: San Luis Rio Colorado (SLRS6) (elev. 128 ft.) to the SSE of Westmorland had winds (left wind rose) just under 25 mph and peak gusts (right wind rose) of 34 mph. Data from the University of Utah's MesoWest.

FIGURE B-28
MEXICALI INTERNATIONAL AIRPORT (MMML), MX
WIND SPEEDS (AVERAGES) & DIRECTION

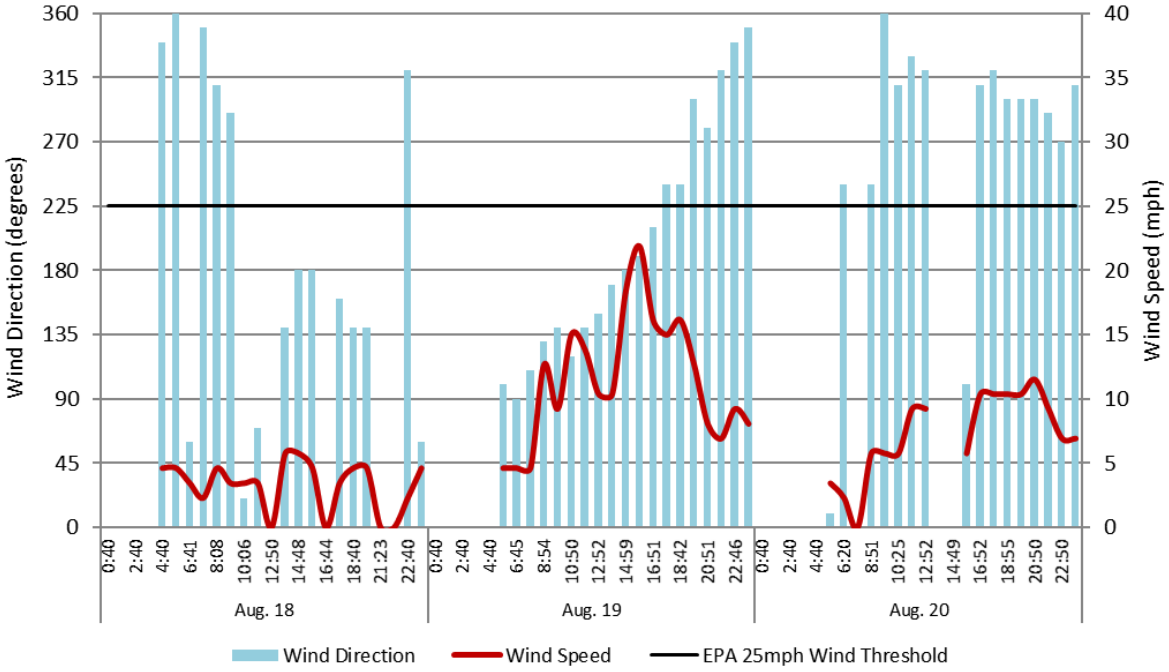
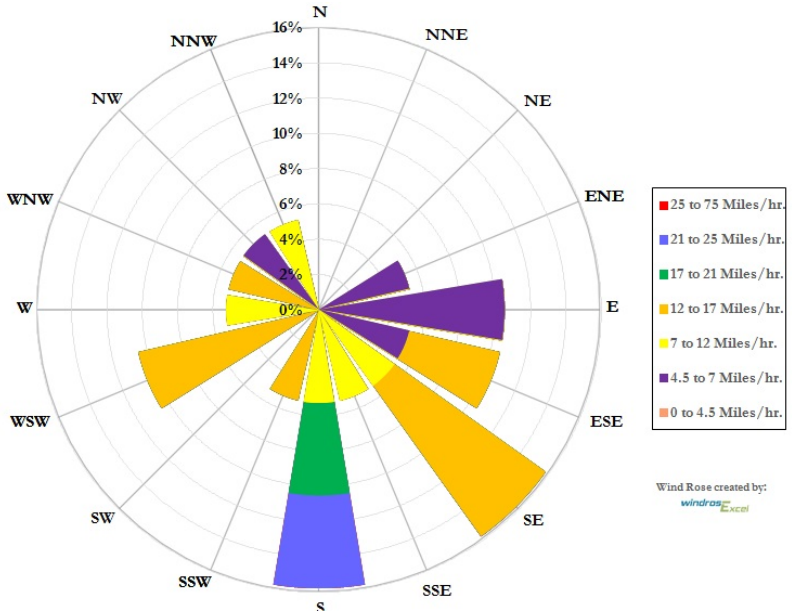


FIGURE B-29
MEXICALI AIRPORT WIND ROSE



Figs. B-28 & B-29: Mexicali International Airport (MMML) had winds just under 25 mph, but did report several hours of blowing dust which was transported northward into Imperial County. Data from the University of Utah's MesoWest.

FIGURE B-30
IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – SEPTEMBER 19, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W
Station: **IMPERIAL CO AIRPORT, CA US 03144**

Local Climatological Data
Hourly Observations
September 2016
Generated on 09/12/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation) AU | AW | MW	Dry Bulb Temp (F)	Dry Bulb Temp (C)	Wet Bulb Temp (F)	Wet Bulb Temp (C)	Dew Point Temp (F)	Dew Point Temp (C)	Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
19	0053	7	CLR:00	10.00		80	26.7	62	16.5	47	8.3	31	7	250		29.88	8	+0.01	29.83	FM-15	0.00	29.82
19	0153	7	CLR:00	10.00		76	24.4	59	15.0	44	6.7	32	5	310		29.89			29.83	FM-15	0.00	29.83
19	0253	7	CLR:00	10.00		78	25.6	58	14.4	39	3.9	25	0	000		29.89			29.83	FM-15	0.00	29.83
19	0353	7	CLR:00	10.00		77	25.0	59	15.2	44	6.7	31	0	000		29.89	3	-0.01	29.84	FM-15	0.00	29.83
19	0453	7	CLR:00	10.00		76	24.4	59	14.8	43	6.1	31	3	140		29.92			29.85	FM-15	0.00	29.86
19	0553	7		10.00		76	24.4	58	14.3	41	5.0	29	3	200		29.93			29.87	FM-15	0.00	29.87
19	0653	7	CLR:00	10.00		78	25.6	61	15.9	46	7.8	32	3	080		29.94	1	-0.05	29.88	FM-15	0.00	29.88
19	0753	7	CLR:00	9.00		84	28.9	67	19.3	55	12.8	37	5	120		29.96			29.90	FM-15	0.00	29.90
19	0853	7	CLR:00	10.00		90	32.2	69	20.6	56	13.3	32	7	150		29.97			29.91	FM-15	0.00	29.91
19	0953	7	CLR:00	10.00		93	33.9	72	22.5	61	16.1	34	8	160		29.97	1	-0.03	29.91	FM-15	0.00	29.91
19	1053	7	CLR:00	10.00		94	34.4	75	24.1	66	18.9	40	9	180		29.96			29.91	FM-15	0.00	29.90
19	1153	7	CLR:00	10.00		96	35.6	72	22.1	58	14.4	28	6	160		29.96			29.90	FM-15	0.00	29.90
19	1253	7	CLR:00	10.00		97	36.1	73	22.8	60	15.6	29	8	200		29.95	8	+0.02	29.89	FM-15	0.00	29.89
19	1353	7	FEW:02 16	8.00		96	35.6	72	22.1	58	14.4	28	15	200		29.96			29.90	FM-15	0.00	29.90
19	1406	7	BKN:07 18	4.00	HZ |FU |HZ	95	35.0	72	22.0	58	14.4	29	18	200		29.95				FM-16		29.89
19	1418	7	SCT:04 18 BKN:07 110	6.00	HZ |FU |HZ	95	35.0	72	22.0	58	14.4	29	21	180	28	29.95				FM-16		29.89
19	1453	7	FEW:02 23 FEW:02 90 SCT:04 110	5.00	-RA |RA |	91	32.8	71	21.9	60	15.6	35	16	180	28	29.96			29.90	FM-15	T	29.90
19	1553	7	SCT:04 110	10.00		93	33.9	70	21.4	57	13.9	30	16	210	23	29.98	3	-0.02	29.92	FM-15	T	29.92
19	1653	7	FEW:02 120	10.00	-RA |RA |	83	28.3	70	21.4	63	17.2	51	34	190	44	30.02			29.96	FM-15	T	29.96
19	1753	7	FEW:02 90 SCT:04 120	10.00	-RA |RA |	82	27.8	70	20.9	62	16.7	51	20	240		30.04			29.98	FM-15	T	29.98
19	1853	7	FEW:02 100	10.00	-RA |RA |	81	27.2	69	20.7	62	16.7	53	16	260		30.03	0	-0.06	29.97	FM-15	T	29.97
19	1953	7	SCT:04 120	10.00		81	27.2	70	21.0	63	17.2	54	10	280		30.02			29.96	FM-15	T	29.96
19	2053	7	OVC:08 100	10.00		81	27.2	70	21.0	63	17.2	54	8	260		30.03			29.97	FM-15	T	29.97
19	2153	7	SCT:04 95 BKN:07 110	10.00		80	26.7	70	20.8	63	17.2	56	0	000		30.03	6	+0.00	29.97	FM-15	T	29.97
19	2253	7	FEW:02 110	10.00	-RA |RA |	79	26.1	71	21.6	66	18.9	65	0	000		30.01			29.95	FM-15	T	29.95
19	2353	7	BKN:07 95 OVC:08 110	10.00		80	26.7	71	21.5	65	18.3	60	5	020		29.99			29.93	FM-15	T	29.93

FIGURE B-31
EL CENTRO NAF (KNJK) QCLCD – SEPTEMBER 19, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: -42 ft. Lat: 32.8167° N Lon: -115.6833° W
Station: **EL CENTRO NAF, CA US 23199**

Local Climatological Data
Hourly Observations
September 2016
Generated on 09/12/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation) AU | AW | MW	Dry Bulb Temp (F)	Dry Bulb Temp (C)	Wet Bulb Temp (F)	Wet Bulb Temp (C)	Dew Point Temp (F)	Dew Point Temp (C)	Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
19	0056	7	CLR:00	10.00		79	26.1	57	13.6	34	1.1	20	9	260		29.89	6	+0.01	29.89	FM-15	0.00	29.85
19	0156	7	CLR:00	10.00		77	25.0	56	13.6	36	2.2	23	6	290		29.88			29.89	FM-15	0.00	29.84
19	0256	7	CLR:00	10.00		76	24.4	57	13.7	38	3.3	25	0	000		29.89			29.89	FM-15	0.00	29.85
19	0356	7	CLR:00	10.00		76	24.4	56	13.5	37	2.8	24	0	000		29.89	3	-0.01	29.90	FM-15	0.00	29.85
19	0456	7	SCT:04 280	10.00		76	24.4	56	13.5	37	2.8	24	3	170		29.91			29.92	FM-15	0.00	29.87
19	0556	7	FEW:02 200 SCT:04 280	10.00		73	22.8	58	14.5	45	7.2	37	5	160		29.93			29.94	FM-15	0.00	29.89
19	0656	7	FEW:02 70 SCT:04 180 BKN:07 280	8.00		77	25.0	57	13.9	38	3.3	24	3	270		29.94	1	-0.05	29.94	FM-15	0.00	29.90
19	0756	7	FEW:02 70 FEW:02 180 BKN:07 280	10.00		84	28.9	62	16.7	44	6.7	25	5	090		29.96			29.96	FM-15	0.00	29.92
19	0856	7	FEW:02 70 BKN:07 180	10.00		87	30.6	64	17.7	46	7.8	24	5	150		29.97			29.97	FM-15	0.00	29.93
19	0956	7	FEW:02 70 FEW:02 120 BKN:07 180	7.00		91	32.8	67	19.3	50	10.0	25	7	140		29.97			29.98	FM-15	0.00	29.93
19	1056	7	FEW:02 70 FEW:02 120 OVC:08 180	8.00		93	33.9	67	19.7	50	10.0	23	8	170		29.97			29.97	FM-15	0.00	29.93
19	1156	7	FEW:02 70 FEW:02 120 OVC:08 180	10.00		96	35.6	66	18.8	43	6.1	16	7	160		29.96			29.96	FM-15	0.00	29.92
19	1256	7	FEW:02 120 OVC:08 180	10.00		96	35.6	67	19.3	46	7.8	18	10	150		29.95	8	+0.02	29.96	FM-15	0.00	29.91
19	1356	7	FEW:02 11 OVC:08 180	2.00	DU |DU	94	34.4	69	20.6	53	11.7	25	23	190	29	29.96			29.96	FM-15	T	29.92
19	1415	7	SCT:04 11 BKN:07 120 OVC:08 180	2.00	DU |DU	93	33.9	69	20.6	54	12.2	27	18	180	29	29.95				FM-16		29.91
19	1435	7	SCT:04 13 BKN:07 120 OVC:08 180	3.00	DU |DU	93	33.9	69	20.4	53	11.7	26	26	180		29.95				FM-16		29.91
19	1456	7	SCT:04 13 BKN:07 100 OVC:08 160	3.00	DU |DU	91	32.8	69	20.5	55	12.8	30	29	180	33	29.96			29.96	FM-15	0.00	29.92
19	1556	7	FEW:02 20 SCT:04 80 OVC:08 120	3.00	DU |DU	91	32.8	69	20.3	54	12.2	28	26	190	33	29.98	3	-0.03	29.99	FM-15	0.00	29.94
19	1656	7	FEW:02 20 SCT:04 80 OVC:08 120	5.00	DU |DU	83	28.3	68	20.2	59	15.0	44	22	200	38	30.03			30.03	FM-15	0.00	29.99
19	1756	7	FEW:02 70 BKN:07 120 OVC:08 180	7.00	-RA |RA |	82	27.8	68	20.0	59	15.0	46	23	220		30.05			30.06	FM-15	T	30.01
19	1856	7	FEW:02 70 BKN:07 100 OVC:08 160	7.00	-RA |RA |	81	27.2	68	20.1	60	15.6	49	18	250		30.04	0	-0.06	30.04	FM-15	T	30.00
19	1956	7	BKN:07 120	10.00		82	27.8	69	20.3	60	15.6	47	13	280		30.02			30.03	FM-15	T	29.98
19	2056	7	BKN:07 90 OVC:08 120	10.00		81	27.2	68	20.1	60	15.6	49	7	260		30.04			30.04	FM-15	0.00	30.00

FIGURE B-32
YUMA AZ MCAS (KNYL) QCLCD – SEPTEMBER 19, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Local Climatological Data
Hourly Observations
September 2016
Generated on 09/12/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 213 ft. Lat: 32.6500° N Lon: -114.6167° W
Station: **YUMA MCAS, AZ US 03145**

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)	%										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
19	0057	6	CLR:00	10.00		83	28.3	62	16.6	45	7.2	26	3	150		29.62			29.84	FM-15	0.00	29.85
19	0157	6	CLR:00	10.00		81	27.2	62	16.7	47	8.3	30	5	160		29.62	6	+0.01	29.84	FM-15	0.00	29.85
19	0257	6	CLR:00	10.00		81	27.2	61	16.0	44	6.7	27	7	160		29.62			29.84	FM-15	0.00	29.85
19	0357	6	CLR:00	10.00		78	25.6	64	17.6	53	11.7	42	11	160		29.62			29.84	FM-15	0.00	29.85
19	0457	6	CLR:00	10.00		79	26.1	74	23.3	71	21.7	77	14	160		29.63	3	-0.01	29.85	FM-15	0.00	29.86
19	0557	6	FEW:02 180 FEW:02 220	10.00		79	26.1	75	23.7	72s	22.2s	79	10	170		29.65			29.87	FM-15	0.00	29.88
19	0657	6	SCT:04 150 SCT:04 180	10.00		79	26.1	73	22.6	69	20.6	72	0	000		29.68			29.89	FM-15	0.00	29.91
19	0757	6	SCT:04 150 BKN:07 180	10.00		85	29.4	69	20.5	59	15.0	42	3	VRB		29.68			29.90	FM-15	0.00	29.91
19	0857	6	SCT:04 150 BKN:07 180	10.00		87	30.6	68	20.1	56	13.3	35	7	140		29.70			29.92	FM-15	0.00	29.93
19	0957	6	SCT:04 150 BKN:07 180	10.00		94	34.4	68	20.3	52	11.1	24	15	180		29.72			29.93	FM-15	0.00	29.95
19	1057	6	BKN:07 150 OVC:08 180	10.00		92	33.3	72	22.3	61	16.1	36	15	190		29.72	1	-0.04	29.94	FM-15	0.00	29.95
19	1157	6	CLR:00	10.00		92	33.3	73	22.6	62	16.7	37	14	190		29.72			29.94	FM-15	0.00	29.95
19	1257	6	BKN:07 120 OVC:08 180	10.00		91	32.8	76	24.6	69	20.6	49	15	190		29.71			29.93	FM-15	0.00	29.94
19	1357	6	BKN:07 120 OVC:08 180	10.00		91	32.8	74	23.3	65	18.3	42	11	190		29.71	6	+0.01	29.93	FM-15	0.00	29.94
19	1457	6	BKN:07 120 OVC:08 180	10.00		90	32.2	72	22.0	61	16.1	38	14	200		29.71			29.93	FM-15	0.00	29.94
19	1557	6	BKN:07 120 OVC:08 180	10.00		90	32.2	72	22.0	61	16.1	38	10	140		29.72			29.94	FM-15	0.00	29.95
19	1648	6	BKN:07 120 OVC:08 180	10.00		89	31.7	72	22.1	62	16.7	41	18	260	25	29.69				FM-16		29.92
19	1655	6	BKN:07 120 OVC:08 180	2.50	HZ DU ||HZ DU	88	31.0	71	21.6	61	16.0	40	23	250		29.68				FM-16		29.91
19	1657	6	BKN:07 120 OVC:08 180	2.50	HZ DU ||HZ DU	88	31.1	70	21.3	60	15.6	39	21	250		29.69	8	+0.03	29.91	FM-15	0.00	29.92
19	1757	6	BKN:07 120 OVC:08 180	2.00	-RA DU |RA |DU	86	30.0	69	20.7	59	15.0	40	15	240	21	29.71			29.93	FM-15	0.00	29.94
19	1838	6	BKN:07 120 OVC:08 180	3.00	-RA DU |RA |FU	85	29.4	69	20.5	59	15.0	42	17	240		29.71				FM-16		29.94
19	1857	6	BKN:07 120 OVC:08 180	3.00	-RA DU |RA |FU	84	28.9	68	20.1	58	14.4	41	14	270		29.70			29.92	FM-15	T	29.93
19	1957	6	BKN:07 120 OVC:08 180	5.00	DU ||FU	82	27.8	68	20.0	59	15.0	46	11	270		29.73	3	-0.04	29.95	FM-15	T	29.96
19	2057	6	BKN:07 120 OVC:08 180	5.00	-RA DU |RA |FU	82	27.8	69	20.3	60	15.6	47	7	300		29.76			29.98	FM-15	T	29.99
19	2157	6	BKN:07 120 OVC:08 180	10.00		80	26.7	69	20.5	62	16.7	54	11	310		29.74			29.96	FM-15	T	29.97
19	2257	6	BKN:07 120 OVC:08 180	10.00		81	27.2	68	20.1	60	15.6	49	9	300		29.72	8	+0.01	29.94	FM-15	0.00	29.95
19	2357	6	OVC:08 100	10.00		83	28.3	68	19.9	58	14.4	43	6	020		29.71			29.93	FM-15	0.00	29.94

FIGURE B-33
BLYTHE AIRPORT (KBLH) QCLCD – SEPTEMBER 19, 2016

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Local Climatological Data
Hourly Observations
September 2016
Generated on 09/12/2017

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 395 ft. Lat: 33.6186° N Lon: -114.7142° W
Station: **BLYTHE ASOS, CA US 23158**

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)	%										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
19	0052	7	CLR:00	10.00		81	27.2	56	13.5	31	-0.6	16	3	010		29.45	5	+0.00	29.85	FM-15	0.00	29.87
19	0152	7	CLR:00	10.00		77	25.0	54	12.1	28	-2.2	16	3	300		29.44			29.84	FM-15	0.00	29.86
19	0252	7	CLR:00	10.00		74	23.3	53	11.7	30	-1.1	20	0	000		29.45			29.84	FM-15	0.00	29.87
19	0352	7	CLR:00	10.00		73	22.8	52	11.3	29	-1.7	19	3	360		29.46	3	-0.01	29.85	FM-15	0.00	29.88
19	0452	7	CLR:00	10.00		73	22.8	54	12.2	34	1.1	24	5	330		29.47			29.86	FM-15	0.00	29.89
19	0552	7	CLR:00	10.00		74	23.3	55	12.6	35	1.7	24	0	000		29.49			29.89	FM-15	0.00	29.91
19	0652	7	CLR:00	10.00		78	25.6	57	13.9	37	2.8	23	0	000		29.51	3	-0.06	29.91	FM-15	0.00	29.93
19	0752	7	CLR:00	10.00		84	28.9	59	15.2	37	2.8	19	5	090		29.52			29.91	FM-15	0.00	29.94
19	0852	7	CLR:00	10.00		89	31.7	62	16.8	40	4.4	18	6	120		29.52			29.92	FM-15	0.00	29.94
19	0952	7	CLR:00	10.00		91	32.8	63	17.4	41	5.0	17	3	180		29.52	1	-0.01	29.92	FM-15	0.00	29.94
19	1052	7	CLR:00	10.00		96	35.6	67	19.7	48	8.9	19	10	180		29.51			29.91	FM-15	0.00	29.93
19	1152	7	CLR:00	10.00		98	36.7	69	20.5	50	10.0	20	15	180		29.50			29.89	FM-15	0.00	29.92
19	1252	7	CLR:00	10.00		99	37.2	70	20.9	51	10.6	20	20	200		29.49	6	+0.03	29.89	FM-15	0.00	29.91
19	1352	7	CLR:00	10.00		96	35.6	69	20.8	53	11.7	23	17	190		29.50			29.90	FM-15	0.00	29.92
19	1452	7	CLR:00	10.00		94	34.4	72	22.3	60	15.6	32	18	190		29.50			29.90	FM-15	0.00	29.92
19	1552	7	CLR:00	10.00		92	33.3	72	22.3	61	16.1	36	21	200		29.50	1	-0.01	29.91	FM-15	0.00	29.92
19	1652	7	FEW:02 120	10.00		92	33.3	71	21.4	58	14.4	32	11	210		29.51			29.91	FM-15	0.00	29.93
19	1752	7	FEW:02 110	9.00		91	32.8	70	21.3	58	14.4	33	21	220	26	29.51			29.91	FM-15	0.00	29.93
19	1850	6	CLR:00	8.00		90	32.0	69	20.3	55	13.0	31	14	190	25	29.52				FM-16		29.94
19	1852	7	CLR:00	8.00		91	32.8	69	20.5	55	12.8	30	13	210	25	29.52	3	-0.01	29.92	FM-15	0.00	29.94
19	1911	7	CLR:00	7.00		88	31.1	69	20.5	57	13.9	35	23	250		29.52				FM-16		29.94
19	1952	7	SCT:04 90 BKN:07 110	10.00		88	31.1	68	20.0	55	12.8	33	21	240		29.53			29.93	FM-15	0.00	29.95
19	2052	7	SCT:04 110	10.00		92	33.3	67	19.2	49	9.4	23	8	270		29.51			29.91	FM-15	0.00	29.93
19	2106	7	FEW:02 110	4.00	HZ SQ |FU SQ |HZ	87	30.6	68	19.8	55	12.8	34	14	180	41	29.54				FM-16		29.96
19	2118	7	FEW:02 110	10.00		85	29.4	68	20.0	57	13.9	39	21	160		29.57				FM-16		29.99
19	2152	7	FEW:02 110	10.00		84	28.9	69	20.3	59	15.0	43	10	220		29.56	3	-0.04	29.96	FM-15	T	29.98
19	2238	7	BKN:07 110	10.00		84	28.9	69	20.3	59	15.0	43	14	260		29.53				FM-16	T	29.95
19	2252	7	OVC:08 110	10.00	-RA |RA |	84	28.9	69	20.3	59	15.0	43	9	260		29.54			29.94	FM-15	T	29.96
19	2352	7	SCT:04 100 BKN:07 120	10.00		86	30.0	67	19.6	55	12.8	35	16	250		29.54			29.94	FM-15	T	29.96